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Spring 2007

CEG 210-01: PC Networking I

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Syllabus

CEG 210 PC Networking I Spring 2007

General Course Information

Instructor: Karen Meyer
Office: 344 Russ Engineering Center
Office Hours: M, W – after class until 11:00 AM and by appointment
Advising Hours: T, Th 1-3 PM. Please call X 5131 to make an appointment during advising hours
Located in 303 Russ
Phone: 775-5104 or 775-5131
E-mail: karen.meyer@wright.edu Use this address rather than WebCT mail)
Web site: <http://wisdom.wright.edu> (WebCT)
Classroom: 346 Russ Engineering Center
Class Times: MW 8:45 – 10:25 AM

Prerequisites: CS 205 **Credit Hours:** 4

Textbook: Greg Tomsho, *Guide to Networking Essentials, Fifth Edition*. Course Technology Incorporated, 2007, ISBN: 1-4188-3718-0. ISBN-13: 978-1-4188-3718-1 - **Required**

Additional Materials

Slides, Reference material found on WebCT

Course Description

Introduction to PC networking hardware, concepts, and technologies. Focus is on LAN administration, hardware and software configuration.

Course Goals

At the end of the quarter the student will be able to:

- design and configure a client server network
- create and manage network objects
- understand current network protocols including TCP/IP
- plan and implement directory services and network file systems
- plan and implement network security
- design and write network login scripts
- manage and solve problems related to a client server network

Specific Topic Coverage Includes:

- Introduction to Networks and Networking Concepts
- Network Design Essentials
- Networking Media and Cards
- Network Communications and Protocols
- Client Server Networks including Introduction to Netware, MS XP/2003 Server and Linux Operating Systems
- Introduction to Network Security
- Network Administration and Support

Course Format

A combination of lecture, demonstration and lab activities will be used during class. Typically, the first part of the class will be dedicated to lecture and the remainder of the class will be used to complete lab-based assignments.

Grading and Evaluation Criteria

Exam 1	20 %
Exam 2	20 %
Exam 3	20 %
Labs/Cases	20 %
Final Lab Project	20 %

The following tentative scale will be used to calculate your grade:

90 – 100 %	A
80 - 89 %	B
70 – 79 %	C
60 – 69 %	D
59 and below	F

Assignment/Exam Policy

10 % will be deducted for each day an assignment is late. No credit will be given for assignments over one week late. Assignments done *in class* cannot be made up for credit. If you know that you will miss an exam, you may take it early, otherwise make-ups will be given on the last day of class. Please provide documentation.

You will have card access to this lab and may use the lab when there is not another class in session.

Link to 346 Class/Lab Schedule: <http://www.cs.wright.edu/cse/students/labschedule.shtml>

Academic Integrity

It is the policy of Wright State University to uphold and support standards of personal honesty and integrity for all students consistent with the goals of a community of scholars and students seeking knowledge and truth. Furthermore, it is the policy of the university to enforce these standards through fair and objective procedures governing instances of alleged dishonesty, cheating, and other academic misconduct. **The following recommendations are made for students:**

1. Be honest at all times.
2. Act fairly toward others. For example, do not disrupt or seek an unfair advantage over others by cheating, by talking, or by looking at other individuals' work during exams.
3. Take group as well as individual responsibility for honorable behavior. Collectively, as well as individually, make every effort to prevent and avoid academic misconduct, and report acts of misconduct that you witness.
4. Do not turn in the same work in more than one class unless permission is received in advance from the professor.
5. Unless permitted by the instructor, do not collaborate with others on graded course work, including in class and take home tests, papers, or homework assignments.

6. Know what plagiarism is and take steps to avoid it. When using the words or ideas of another, even if paraphrased in your own words, cite the source(s).

7. Know the policy—ignorance is no defense. If you have any questions regarding academic misconduct, contact your instructor. Those who violate campus rules are subject to disciplinary action.

This information was obtained from Wright State's Office of Judicial Affairs. Complete information may be referenced at: <http://www.wright.edu/students/judicial/integrity.html>

Responsible Use of Information Technology

Wright State University provides computing, information, and communications resources for its students to support their learning and research. Access to these information technology resources is a privilege and requires adherence to this Information Technology policy as well as to other University policies, including but not limited to: World Wide Web (Wright Way 2001), Copyrighted Materials (Wright Way 2303), WSU Student Handbook, WSU Student Organization Handbook, and Student Housing Data Network Acceptable Use Policy.

Users of the University's information technology resources are also bound not only by those laws, policies, and regulations that are specific to computing, telecommunications, and networks, but also by all other international, federal, state, and local regulations and statutes that apply.

This policy applies to all use of the University's computing, information, and communications resources, whether administered by Computing and Telecommunications (CATS), by individual University colleges and departments, or by off-campus units that connect remotely to the University's network and operate under the aegis of Wright State University. Privately-owned machines, while attached to the University network, are subject to the same policies as University-owned computer systems.

Responsibility for the use of the University's computing, information, and communications resources by minors (persons under 18 years of age) rests with their parents or legal guardians.

This information was obtained from Wright State's Office of Judicial Affairs. Complete information may be found at: <http://www.wright.edu/cwis/policies/itpolicy.html>

Student Disabilities

Students with documented disabilities that require physical or academic accommodations must contact their Instructor during the first week of classes. To receive more information or to apply for services, contact the Office of Disability Services.

Spring Quarter 2007 Important Dates

March 26, Monday	First Day of Spring Quarter Classes
April 13, Friday	Last Day for All Students to Drop a Class Without a Grade
May 11, Friday	Last Day for All Students to Drop a Class With a Grade of W
May 28, Monday	Memorial Day Holiday (University Closed)
June 2, Saturday	Last Day of Spring Quarter Classes
June 4-9, Mon. - Sat.	Final Examinations
June 9, Saturday	Spring Commencement

Course Outline(Tentative) Any adjustments to the schedule will be announced in class

Week	Topics	Chapter Readings	Lab Assignments
1 M 3-26 W 3-28	Course Introduction Introduction to Networks and Networking Concepts	Chapter 1	
2 M 4-2 W 4-4	Network Design Essentials (Topologies) Networking Media Network Interface Cards	Chapter 2 Chapter 3, omit section on categories 1-4, p.79, omit pp.83-84 Making TP Cable, scan pp 92-103, Chapter 4 Scan, use slides as outline	Ch 2 Hands-On Projects, In-Class (groups) Ch 3 Hands-on Project 3-1, p 116, A variation of this project will be done in class. Homework: Case Projects 3-1 to 3-5, p 119 - 121
3 M 4-9 W 4-11	Introduction to Directory Services	Chapter 8 Read Only pp 296-300, 303 -304, Directory Services File(WebCT)	Directory Services Lab(WebCT)
4 M 4-16 W 4-18	Wrap Up/Review Sheet/Lab, Begin Ch. 5 if time Exam 1 (Chs 1,2,3, 4 and 8(partial), directory services-slides and notes)		
5 M 4-23 W 4-25	Making Networks Work(OSI Model and Standards) Network Communications and Protocols(IP Addressing)	Chapter 5 Chapter 6	Case Projects 5-1,4,5 p.191-192 In Class, IP Problems as assigned in class
6 M 4-30 W 5-2	Network Communications and Protocols(IP Addressing) cont. Network Architectures	Chapter 7	Ch 7 Case, TBA
7 M 5-7 W 5-9	Wrap Up/Review Sheet Exam 2 (Chs 5,6,7)Possible begin Disk Sub Systems		
8 M 5-14 W 5-16	Disk Sub Systems, Network File Systems Introduction to Network Security	Ch 8 pp 294-296 Naming services, p 313 file shares, Slides Chapter 10	File System Lab Network Security Lab
9 M 5-21 W 5-23	Network Security Login Scripts/Managing the Desktop	Slides	
10 M 5-28 W 5-30	Memorial Day – No Class Exam 3 – Last Day of Class (material covered since exam 2)		

Final Lab Project is due during Finals Week, Monday June 4th at 9:00 AM in 346 RC